

Basic Mathematics II
Fall 200x WWW course
The University of XXXXX

Instructor: Ms. Rhonda S. Renker

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Credit Hours: 0.0 credit hours; 4.0 instructional hours

Prerequisite: Placement or Basic Math I

Text: *Beginning Algebra* (7th edition) by Baratto and Bergman.
ISBN 0073048313

Wiki site: <http://renkerbasicmathii.wikispaces.com/>

Course Description: Basic Mathematics II is a developmental course designed to provide a review of arithmetic and beginning algebra. Topics addressed in the course include fractions and decimals, percent, negative and positive numbers, algebraic expressions, including linear equations and inequalities, equations with fractions, formulas, word problems, exponents, operations with polynomials, factoring, rational expressions, introduction to graphing, functions, systems of equations, radicals, and quadratic equations. The course will cover chapters 0-4, 5.1-5.4, 5.6, 6.1-6.4, 7, 8.2, 8.3, 9.1-9.4, 9.6, and 10.1-10.3 (Felix, 2008).

Rationale: This course is designed to improve one's math skills to a level acceptable for Intermediate Algebra, Math for Technology I, or Basic Statistics (Felix, 2008).

Learning Outcomes: Upon completion of this course, the successful student will be able to:

1. Perform the basic operations with real numbers.
2. Perform the basic operations with polynomials and rational expressions.
3. Solve linear equations and inequalities.
4. Solve various applied problems.
5. Understand and use exponents and exponent rules.
6. Factor polynomials.
7. Graph linear equations and obtain equations of lines.
8. Solve systems of equations.
9. Simplify radicals and perform the basic operations with radical expressions.
10. Solve quadratic equations (Felix, 2008).

College Policies: Students should visit <http://www.xxxxx.edu/syllabus-policies/> for important policies (including student rights and responsibilities) and college information (Felix, 2008).

DISCUSSION FORUMS:

Discussions will be worth a total of 150 points (10 points for each week of the 15 week course.)

You are expected to participate in each assigned discussion. Participating means giving a full, substantive answer to a posed question, as well as at least one full, substantive answer to a classmate's question, **IN EACH FORUM ASSIGNED FOR THE WEEK.**

Please post the topic subject/question subject in the "Subject" heading above the message area, so that everyone can easily see your topic.

The forums:

General questions about the class – this forum is optional, for those who have general questions about class procedures.

Background - This is the place to post links to sites that you have found helpful in better understanding a topic. These comments will be saved for future classes, as a collection of classmate contributed background information. This is also the place to ask questions about the unit.

Topic discussions – This is a required discussion forum. Each week, you are required to post answers to questions a) and b), and respond with a substantial post to at least one other post to get full credit for the week's discussion points.

Reflection Tips - This thread is not required, but posting at least one substantial post will give the poster 5 bonus points: What study tips can you give students who take the class next semester?

Reflections - Explanation

If you were going to explain what you learned in this week's lesson to a classmate who was sick and has not yet started the lesson, how would you explain the main topic?

This is a required posting. You must post at least one substantial post in this thread each week.

Reflections – Misconceptions - This forum is not required, but is recommended to read each week. What topics are still unclear to you? Please feel free to post questions on this discussion thread. Students, I encourage you to help each other with answers to questions. I will monitor the discussions, and add input as needed.

Reflection - Multiplication tables - End of Unit Assignment – Required for designated students, for 5 bonus points

Quizzes. There will be a 50 point quiz at the end of every week, beginning in the second week of class. Since these quizzes are taken online, you are on the honor system. You will only hurt yourself if you cheat on the quizzes, as you will not understand the background information needed to do work in future classes!

Projects - Our projects this semester will center around solving single variable equations, and problem-solving using single variable equations. You will work in teams of three. Each time will have a **group leader**, who will maintain group protocol throughout the sessions, and will present the project to the class, by submitting it to the Project Posting Page; a **brainstormer/researcher**, who will sift through ideas presented by the group to problem-solve; and do the final proofreading of a document before sending it to

the group leader for submission on the Wiki; and a **computer designer/artist**, who will graphically prepare the team findings for presentation. In the case of a Word document, this is the person who will proofread the document for readability.

Everyone is expected to complete a rough draft of the project by themselves, and then discuss the project on the discussion board designated for their team, found by clicking the "Discussion" tab at the top of the project page of the wiki.

You will evaluate your participation in the group, as well as participation by group members, by answering an email sent to you at the end of each project week.

Teams and job assignments will be selected by the instructor.

You will receive an email at the beginning of each unit, no later than the first Monday of the first week of that unit, giving you the names and email addresses of your team-mates, as well as your team "job." What topics are still unclear to you? Please feel free to post questions on this discussion thread. Students, I encourage you to help each other with answers to questions. I will monitor the discussions.

Completed projects should be posted to the Projects Posting Page of the wiki, and should also be submitted by email to the instructor at rsj5@uakron.edu. To safeguard against undelivered emails, send a copy of each project to yourself, to confirm submission time and date.

Homework (worth 100 points for the semester) assignments will be emailed each week, along with project job designations. Completed homework should also be submitted as **Word documents or as scanned in pdf files**, emailed to the instructor at rsj5@uakron.edu. **To safeguard against undelivered emails, send a copy of each homework assignment to yourself, to confirm submission time and date.**

You will note that quizzes are not scored. A quiz will be given each week via MathZone (http://highered.mcgraw-hill.com/classware/ala.do?isbn=0073048313&alaid=ala_761596), but not graded. Your login information will be sent to you by email for MathZone. Quizzes will only be used as an indicator of your progress.

CHEATING ON QUIZZES WILL ONLY HURT YOU!

Grading Scale:

93% - 100%	A	73% - 76%	C
90% - 92%	A-	70% - 72%	C-
87% - 89%	B+	67% - 69%	D+
83% - 86%	B	63% - 66%	D
80% - 82%	B-	60% - 62%	D-
77% - 79%	C+	Below 60%	F

Note: A grade of C or better is required in order to move on to the next math course.

Total points for the course

Homework	100 points
Projects (5 at 100 points each)	500 points
Discussion Points	<u>150 points</u>
Total	750 points

REFERENCES

Baratto, S. & Bergman, B. (2008). *Beginning Algebra*, 7E. New York, NY: McGraw Hill.

Felix, G. (2008). *Syllabus 2010052704 Basic Math Syllabus Fall 2008_4087_G Felix*.
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